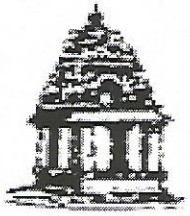

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

***Name of Work**: Estimate for Improvements to Roads and Drains at Kodigehalli Village and Kodigehalli Layout in Ward No. 08, Kodigehalli Sub Division.*

Estimated Cost: Rs. 50.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Improvements to Roads and Drains at Kodigehalli Village and Kodigehalli Layout in Ward No. 08, Kodigehalli Sub Division.

							Estimate Cost:	5000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3/ PWD SR 2013-14**	Cum							
	B.S Slab Drain		1	201.00	0.75	0.60	90.45		
			1	43.00	0.60	0.60	15.48		
			1	65.00	0.60	0.60	23.40		
			1	35.00	0.60	0.60	12.60		
			2	94.00	0.60	0.60	67.68		
	L Shape Drain		1	35.00	0.60	0.60	12.60		
			1	91.00	0.60	0.60	32.76		
	CC Drain		1	150.00	1.00	0.90	135.00		
							389.97	227.88	**88866.00**
	Basic Rate	211.00							
	Area Weightage @8%	16.88							
	Total	**227.88**							
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 28 / Item No. 5.31.1/ PWD SR 2013-14**	Sqm							
	BSL Slab Drain		1	201.00		1.65	331.65		
			1	43.00		1.65	70.95		
			1	65.00		1.65	107.25		
			1	35.00		1.65	57.75		
			2	94.00		1.65	310.20		
	L Shape Drain		1	35.00		1.00	35.00		
			1	91.00		1.00	91.00		
							1003.80	343.44	**344745.00**
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	**343.44**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	For Raising of Bottom Concrete		1	150.00	1.00	0.15	22.50		
							22.50	4290.84	**96544.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
4	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls** at any **thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	CC Drain		4	150.00		0.60	360.00		
	Covering Bottom		1	150.00	0.60		90.00		
	Covering Side walls		4	150.00		0.10	60.00		
							510.00	271.08	**138251.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
5	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14**	Cum							
	CC Drain Bottom Concrete		1	150.00	0.90	0.15	20.25		
	Sidewalls		2	150.00	0.15	0.60	27.00		
	Covering Slab		1	150.00	0.90	0.10	13.50		
							60.75	6464.88	**392741.00**

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	**6464.88**							
6	KSRB 4.9.2: Providing **TMT steel reinforcement** for **R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14**	Qtl							
			0.60	60.75			**36.45**	7450.92	**271586.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							
7	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
	Main Road		1	201.00	7.00		1407.00		
			1	43.00	3.75		161.25		
			1	55.00	5.00		275.00		
			1	65.00	4.40		286.00		
			1	60.00	6.30		378.00		
			1	60.00	5.50		330.00		
			1	92.00	5.00		460.00		
			1	88.00	6.00		528.00		
			1	75.00	5.00		375.00		
							4200.25	72.79	**305745.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							

Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							
	UGD Cutting Portion		1	201.00	1.00	0.20	40.20		
			1	43.00	1.00	0.20	8.60		
			1	55.00	1.00	0.20	11.00		
			1	65.00	1.00	0.20	13.00		
			1	60.00	1.00	0.20	12.00		
			1	60.00	1.00	0.20	12.00		
			1	92.00	1.00	0.20	18.40		
			1	88.00	1.00	0.20	17.60		
			1	75.00	1.00	0.20	15.00		
	Road Surface								
			1	201.00	7.00	0.20	281.40		
			1	43.00	3.75	0.20	32.25		
			1	55.00	5.00	0.20	55.00		
			1	65.00	4.40	0.20	57.20		
			1	60.00	6.30	0.20	75.60		
			1	60.00	5.50	0.20	66.00		
			1	92.00	5.00	0.20	92.00		
			1	88.00	6.00	0.20	105.60		
			1	75.00	5.00	0.20	75.00		
							987.85	1121.04	**1107419.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
9	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
			1	201.00	7.00		1407.00		
			1	43.00	3.75		161.25		
			1	55.00	5.00		275.00		
			1	65.00	4.40		286.00		
			1	60.00	6.30		378.00		
			1	60.00	5.50		330.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	92.00	5.00		460.00		
			1	*88.00*	*6.00*		*528.00*		
			1	75.00	5.00		375.00		
							4200.25	10.53	**44229.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
10	KSRRB 500-5: providing and applying primer coat from 12.2 to 14.6kg per 10 sqm for surfaces of high porosity over prepared surface of granular base with cut back M.C.-70 or any other bitumen mixed with diesel at 13 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.5 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 18				4200.25		
							4200.25	142.07	**596746.00**
	Basic Rate	131.55							
	Area Weightage @ 8%	10.52							
	Total	**142.07**							
11	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
			1	201.00	7.00	0.025	35.18		
			1	43.00	3.75	0.025	4.03		
			1	55.00	5.00	0.025	6.88		
			1	65.00	4.40	0.025	7.15		
			1	60.00	6.30	0.025	9.45		
			1	60.00	5.50	0.025	8.25		
			1	92.00	5.00	0.025	11.50		
			1	88.00	6.00	0.025	13.20		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Chowdeshwari Water Supply Form House Road		1	75.00	5.00	0.025	9.38		
							125.49	9981.36	1252536.00
	Basic Rate	9242.00					105.01		1048105.00
	Area Weightage @ 8%	739.36							
	Total	9981.36							
	Lead for Disposal of Debris shall be payable at Schedule rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum					389.97		
			Vide Item No. 1+2+3				1009.64	72.71	73406.00
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	72.71							
18	Sub Total								4462581.00
19	KRIDL Service Charges and Applicable Taxes@ 11%								490884.00
20	Third Part Quality Control Charges @ 1%								44626.00
21	Miscellaneous and other Charges	L/S							1909.00
								Total	5000000.00

(Rs. Fifty Lakhs Only)

Fifty Lakhs only (50.00 Lakhs)

299/13-14, 03/03/14

4463330.00

4490966.00

03/03/14

4463300

10710

SE/C

SE/YNF/

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs.....
Rupees Fifty Lakhs

Under H/a P-0190 Mayor Spl grants

Accepted as EE ( ) No 3 ...9....
Subject to conditions contained in enclosed memo EE ( ) No /9/....
Dt Estimate A/Sanctioned
Addl Commr(West) No AS.890 / 13-14
dated 22/3/14

Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92